SUFFOLK COUNTY NY Department of Health Services

2001 Annual Report

Vital Statistics for 2000

Robert J. Gaffney

County Executive

Linda Mermelstein M.D., M.P.H

Acting Commissioner

Note on Changes in the Vital Statistics Data

Starting with the 1999 vital statistics data, two important changes were made in the way statistical data are classified and analyzed. These changes are very important to keep in mind when comparing rates calculated from 1999 or later years with rates from pre-1999 data.

The first change is that, starting with 1999, deaths are classified using a new system *International Classification of Disease 10* (ICD 10) instead of the older ICD 9 system. For certain causes of death, like influenza and pneumonia, rates have been substantially reduced because deaths have been reclassified to other causes under ICD 10. For other causes of death, like cancer, total death rates have been little impacted but the internal distribution of deaths between different types of cancer have changed¹. A <u>dashed vertical line</u> has been used in the mortality trend graphs in the *SCDHS Annual Report* to caution in making trend comparisons between rates compiled in the two ways. (Rigorous statistical comparisons between ICD 9 and ICD 10 compiled rates requires the use of a formula with a comparability ratio for that cause of death. Some of these ratios have been published by the National Center for Health Statistics, see footnote one below.)

A second major change was also made beginning with the 1999 data. The age adjustment standard for mortality data was changed from the 1940 US population to the 2000 US population. Age standards are used so that rates can be compared between populations that have different age distributions. Older populations generally have more disease, so one wants to control for differences in age when making population

comparisons. Different data sets, mortality, cancer incidence, national health surveys, etc., had been using different standard populations (1940 US population, 1970 US population, etc.). Therefore it was decided in 1998 by the US Department of Health and Human Services to adopt a single age adjustment standard across all health data sets². This change in the age adjustment standard only affects a single *SCDHS Annual Report* table: 'Crude and Age-Adjusted Death Rates From Leading Causes by Township of Residence'. In this table the age-adjusted rates, given in parentheses, use the new standard. Caution should be exerted in comparing these age-adjusted rates with the corresponding age-adjusted rates in previous year editions of the *SCDHS Annual Report*. Rate differences could be due, entirely or in part, to differences in the age-adjustment standard or in changes in the disease classification system.

¹For a detailed discussion of the impact of this change see Anderson RN, Minino AM, Hoyert DL, and Rosenberg HM; 'Comparability of Cause of Death Between ICD-9 and ICD-10: Preliminary Estimates'; National Vital Statistics Reports; Vol. 49, No. 2, May 18, 2001

²Klein, RJ, Schoenborn CA; 'Age Adjustment Using the 2000 Projected US Population'; <u>Healthy People 2010 Statistical Notes</u>; No. 20, Jan. 2001

VITAL STATISTICS RATES BY TOWNSHIP OF RESIDENCE: 2000 COMPARISON OF SUFFOLK COUNTY WITH OTHER AREAS

		20	00	
Numbers	Total N.Y.S.	New York City	Nassau County	Suffolk County
Live Births	258,455	120,998	16,979	20,248
Premature Births (1)	20,020	9,934	1,271	1,518
Out-of-Wedlock Births (2)	95,033	55,626	3,195	4,429
Total Pregnancies (3)	402,709	220,950	23,113	25,979
Teenage Pregnancies (4)	44,412	26,001	1,418	1,910
Births to Teenage Mothers	20,770	10,581	577	965
Total Deaths	157,412	59,737	11,207	11,186
Infant Deaths (<1 Year)	1,632	768	97	94
Neonatal Deaths (<28 days)	1,157	532	72	76
Induced Abortions	125,146	89,037	4,754	4,381
Spontaneous Fetal Deaths	19,108	10,925	1,380	1,350
Marriages	133,542	60,607	8,126	8,897
Dissolutions of Marriage	606,296	26,646	3,426	3,776

- (1) Birth weights less than 2,500 grams
- (2) Out-of-Wedlock Births include births where father's age was not stated on birth certificate plus births where paternity affidavit was filed.
- (3) Pregnancies include Live Births, Induced Abortions and Spontaneous Fetal Deaths
- (4) Females 19 years of age or younger
- (5) Rate of 1,000 population
- (6) Percentage of Total Live Births
- (7) Percentage of Total Pregnancies
- (8) Rate per 1,000 Live Births
- (9) Rates per 1,000 Live Births plus induced Abortions or Spontaneous Fetal Deaths

VITAL STATISTICS RATES BY TOWNSHIP OF RESIDENCE: 2000 COMPARISON OF SUFFOLK COUNTY WITH OTHER AREAS 2000

Rates	Total NYS	NYC	Nassau	Suffolk
Live Births (5)	13.6	16.1	12.7	14.3
Premature Births (6)	7.8	8.2	7.5	7.5
Out-of-Wedlock Births (6)	38.9	46.0	18.8	18.8
Teenage Pregnancies (7)	11.0	11.8	6.1	7.4
Births to Teenage Mothers (6)	8.0	8.7	3.4	4.8
Total Deaths (5)	8.3	7.5	8.4	7.9
Infant Deaths (<1 Year) (8)	6.3	6.3	5.7	4.6
Neonatal Deaths (<28 days) (8)	4.6	4.4	4.2	3.8
Induced Abortions (9)	326.2	423.9	218.7	177.8
Spontaneous Fetal Deaths (9)	68.8	82.8	75.2	62.5
Marriages (5)	7.0	7.6	6.1	6.3
Dissolutions of Marriage (5)	3.2	3.3	2.6	2.7

- (1) Birth weights less than 2,500 grams
- (2) Out-of-Wedlock Births include births where father's age was not stated on birth certificate plus births where paternity affidavit was filed.
- (3) Pregnancies include Live Births, Induced Abortions and Spontaneous Fetal Deaths
- (4) Females 19 years of age or younger
- (5) Rate of 1,000 population
- (6) Percentage of Total Live Births
- (7) Percentage of Total Pregnancies
- (8) Rate per 1,000 Live Births
- (9) Rates per 1,000 Live Births plus induced Abortions or Spontaneous Fetal Deaths

VITAL STATISTICS RATES BY TOWNSHIP OF RESIDENCE: SUFFOLK COUNTY, 2000

	Babylon	Brkhaven	East Hampton	Huntington	Islip	Riverhead	Shelter Island	Smithtown	Sthmptn	Southold	TOTAL (1) S. County
Live Births (2)	14.4	13.9	11.6	14.8	15.1	10.1	4.5	13.8	15.2	9.1	14.3
Premature Births (3)	7.5	8.2	6.5	5.8	8.1	10.0	0.0	6.3	7.6	2.1	7.5
Teenage Pregnancies (4)	8.4	7.7	4.6	4.2	8.7	10.8	7.1	3.1	8.1	4.4	7.4
Births to Teenage Mothers (5)	5.7	4.7	3.0	2.4	6.8	10.4	0.0	0.7	5.8	2.7	4.8
Total Deaths (2)	8.3	7.3	9.4	7.7	6.8	12.3	10.3	9.3	10.3	12.6	7.9
Infant Deaths (<1 Year) (6)	6.8	5.0	0.0	2.1	6.6	3.6	0.0	1.3	2.4	0.0	4.6
Neonatal Deaths (<28 Days) (6)	4.6	4.5	0.0	1.7	5.3	3.6	0.0	0.6	1.2	0.0	3.8
Induced Abortions (7)	200.2	204.6	228.9	101.9	158.1	241.8	285.7	124.9	159.4	146.1	177.8
Spontaneous Fetal Deaths (7)	67.1	82.6	21.4	43.3	54.9	37.9	0.0	53.3	24.6	41.0	62.5

- (1) Includes event with residence unknown
- (2) Rates per 1,000 population
- (3) Percent of all live births weighing less than 2,500 grams
- (4) Percent of all pregnancies to mothers of age 19 or younger
- (5) Percent of all live births to mothers of age 19 or younger
- (6) Rates per 1,000 live births
- (7) Rates per 1,000 live births plus induced abortions or spontaneous fetal deaths

VITAL STATISTICS BY TOWNSHIP OF RESIDENCE: SUFFOLK COUNTY, 2000

	Babylon	Brkhaven	East Hampton	Huntington	Islip	Riverhead	Shelter Island	Smithtown	Sthmptn	Southold	TOTAL (1) S. County
Population (2)	211,792	448,248	19,719	195,289	322,612	27,680	2,228	115,715	54,712	20,599	1,419,369
Live Births	3,044	6,239	229	2,891	4,871	279	10	1,597	833	187	20,248
Premature Births (3)	229	514	15	167	395	28	0	100	63	4	1,518
Total Pregnacies (4)	4,025	8,406	302	3,350	6,069	379	14	1,915	1,012	227	25,979
Teenage Pregnancies (5)	339	646	14	141	530	41	1	60	82	10	1,910
Births to Teenage Mothers	173	295	7	69	329	29	0	9	48	5	965
Total Deaths	1,753	3,268	185	1,496	2,191	340	23	1,072	564	260	11,186
Infant Deaths (<1 Year)	20	31	0	6	32	1	0	2	2	0	94
Neonatal Deaths (<28 Days)	14	28	0	5	26	1	0	1	1	0	76
Induced Abortions	762	1,605	68	328	915	89	4	228	158	32	4,381
Spontaneous Fetal Deaths	219	562	5	131	283	11	0	90	21	8	1,350

- (1) CountyTotals may be higher than the sum of townships because of events reported with unknown residence
- (2) LIPA Population Estimates
- (3) All live births with birth weight less than 2,500 grams
- (4) Sum of all live births, induced abortions, and spontaneous fetal deaths
- (5) All pregnancies to mothers of age 19 or younger

NUMBER OF SELECTED NOTIFIABLE DISEASES BY TOWNSHIP OF RESIDENCE: SUFFOLK COUNTY, 2000 AND PROVISIONAL 2001

		2000										
Disease	Babylon	Brkhaven	East Hampton	Huntington	Islip	Riverhead	Shelter Island	Smithtown	Sthmptn	Southold	2000	2001 Prov.
Amebiasis	1	8	2	2	7	0	0	1	3	0	24	11
Babesiosis	0	7	15	0	1	2	3	2	14	9	53	69
Campylobacteriosis	17	77	7	24	23	2	1	15	6	0	172	140
E.Coli 0157:H7	1	17	1	1 1	3	0	0	3	0	2	28	15
Ehrlichiosis	0	1	1	0	0	0	0	0	1	0	3	3
Encephalitis	2	11	0	0	2	0	0	0	0	0	5	13
Giardiasis	14	42	4	17	45	1	0	8	8	2	141	120
Gonorrhea	118	62	3	26	89	19	0	2	7	0	321	432
Hemophilus Influenza	2	2	0	1	1	0	0	0	0	0	6	9
Hepatitis A	4	4	0	2	8	0	0	1	0	1	20	74
Hepatitis B	3	3	1	4	6	0	0	0	0	0	17	13
Hepatitis C	1	1	0	0	0	0	0	0	0	0	2	1
Legionellosis	0	1	0	1	1	0	0	1	0	0	4	14
Lyme Disease	12	189	75	21	52	30	26	20	95	61	581	417
Malaria	0	5	0	1	4	0	0	1	0	0	11	11
Measles	0	0	0	0	0	0	0	0	0	0	0	0
Meningitis	19	11	2	23	22	4	0	5	2	1	89	108
Mumps	0	1	0	0	1	0	0	0	0	0	2	0
Pertussis	2	5	0	1	7	0	0	1	0	0	16	2
R.M. Spotted Fever	0	3	0	0	0	0	0	0	0	0	3	0
Rubella	0	0	0	0	1	0	0	0	0	0	1	0
Salmonellosis	36	69	5	21	42	1	0	6	5	2	187	235
Shigellosis	8	10	1	4	23	0	0	1	0	0	47	63
Syphilis	11	3	0	0	7	0	0	0	3	0	24	32
Tuberculosis	13	11	2	12	21	3	0	4	1	0	67	68

RATES(1) OF SELECTED NOTIFIABLE DISEASES BY TOWNSHIP OF RESIDENCE: SUFFOLK COUNTY, 2000 AND PROVISIONAL 2001

					20	000					Suffolk (Totals	
Disease	Babylon	Brkhaven	East Hampton	Huntington	Islip	Riverhead	Shelter Island	Smithtown	Sthmptn	Southold	2000	2001 Prov.
Amebiasis	0.5	1.8	10.1	1.0	2.2	0.0	0.0	0.9	5.5	0.0	1.7	0.8
Babesiosis	0.0	1.6	76.1	0.0	0.3	7.2	134.6	1.7	25.6	43.7	3.7	4.8
Campylobacteriosis	8.0	17.2	35.5	12.3	7.1	7.2	44.9	13.0	11.0	0.0	12.1	9.8
E.Coli 0157:H7	0.5	3.8	5.1	0.5	0.9	0.0	0.0	2.6	0.0	9.7	2.0	1.0
Ehrlichiosis	0.0	0.2	5.1	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.2	0.2
Encephalitis	0.9	0.2	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.4	0.9
Giardiasis	6.6	9.4	20.3	8.7	13.9	3.6	0.0	6.9	14.6	9.7	9.9	8.4
Gonorrhea	55.7	13.8	15.2	13.3	27.5	68.6	0.0	1.7	12.8	0.0	22.6	30.3
Hemophilus Influenza	0.9	0.4	0.0	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.4	0.6
Hepatitis A	1.9	0.9	0.0	1.0	2.5	0.0	0.0	0.9	0.0	4.9	1.4	5.2
Hepatitis B	1.4	0.7	5.1	2.0	1.8	0.0	0.0	0.0	0.0	0.0	1.2	0.9
Hepatitis C	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Legionellosis	0.0	0.2	0.0	0.5	0.3	0.0	0.0	0.9	0.0	0.0	0.3	1.0
Lyme Disease	5.7	42.2	380.3	10.7	16.1	108.4	1167.0	17.3	173.6	296.1	40.9	29.3
Malaria	0.0	1.1	0.0	0.5	1.2	0.0	0.0	0.9	0.0	0.0	0.8	0.8
Measles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Meningitis	9.0	2.4	10.1	11.8	6.8	14.4	0.0	4.3	3.7	4.9	6.3	7.6
Mumps	0.0	0.2	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Pertussis	0.9	1.1	0.0	0.5	2.2	0.0	0.0	0.9	0.0	0.0	1.1	0.1
R.M. Spotted Fever	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Rubella	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Salmonellosis	17.0	15.4	25.3	10.8	13.0	3.6	0.0	5.2	9.1	9.7	13.2	16.5
Shigellosis	3.8	2.2	5.1	2.0	7.1	0.0	0.0	0.9	0.0	0.0	3.3	4.4
Syphilis	5.2	0.7	0.0	0.0	2.2	0.0	0.0	0.0	5.5	0.0	1.7	2.2
Tuberculosis	6.1	2.5	10.1	6.1	6.5	10.8	0.0	3.4	1.8	0.0	4.7	4.8

⁽¹⁾ Cases per 100,000 population

NUMBER OF DEATHS FROM LEADING CAUSES BY TOWNSHIP OF RESIDENCE: SUFFOLK COUNTY, 2000

CAUSE OF DEATH WITH I.C.D. X CODE	Babylon	Brkhaven	East Hampton	Huntington	Islip	Riverhead	Shelter Island	Smithtown	Sthmptn	Southold	TOTAL (1) S. County
Heart Disease (I00-09, I11, I13, I20-I51)	647	1,187	53	515	799	104	8	407	183	82	4,001
Malignant Neoplasms (C00-C97)	447	794	63	390	498	90	3	250	151	76	2,767
Cerebrovascular Disease (I60-I69)	92	154	16	71	110	25	4	55	42	16	586
Motor Vehicle Accidents (Note 2)	19	46	1	18	41	9	1	8	6	3	155
All other accidents (See Note 2)	34	87	3	35	51	7	0	24	11	4	256
Cirrhosis of Liver (K70, K73, K74)	14	26	1	11	24	0	0	3	6	3	88
Chronic Obstructive Pulmonary Disease (J40- J47)	100	163	7	54	112	17	1	46	22	15	539
Diabetes Mellitus (E10- E14)	41	69	3	31	42	12	0	26	9	2	236
Pneumonia and Influenza (J10-J18)	25	84	3	42	62	10	1	29	16	4	276
Atherosclerosis (I70)	7	22	0	20	11	0	0	13	2	Ī	76
Suicide (X60-X849, Y870)	14	42	2	17	22	3	1	9	3	3	116
Homicide (X85-Y099, Y871, Y35, Y890)	4	10	0	3	15	0	0	0	1	0	33
All Other Causes	309	584	31	289	404	63	4	202	114	51	2,057

Data Source:

New York State Department of Health

- (1) County totals may be higher than the sum of townships because of events with Township of Residence unknown.
- (2) Motor Vehicle Accidents and All Other Accidents use miscellaneous non-consective V codes in ICD X. A list of codes for each of these causes is available on request.

	CRUDE AND A	AGE ADJU	JSTED *D		TES **FRO UFFOLK C			SES BY T	OWNSHIP	OF RESI	DENCE:	
I.C.D. X CODE	CAUSE OF DEATH	Babylon	Brkhaven	East Hampton	Huntington	Islip	Riverhead	Shelter Island	Smithtown	Sthmptn	Southold	
(100-09, 111,	Heart Disease	305.5	264.8	270.4	263.7	247.7	375.7	359.1	351.7	333.9	398.1	I
I13, I20-I21)	Heart Disease	(330.1)	(319.9)	(218.4)	(264.7)	(334.8)	(262.9)	(142.4)	(319.6)	(248.4)	(210.9)	
(C00-C97)	Malignant	211.1	177.1	319.2	199.7	15.4	325.1	134.6	216.0	276.1	368.9	Ī
(C00-C97)	Neoplasms	(217.4)	(206.0)	(252.0)	(192.4)	(187.0)	(238.4)	(104.0)	(200.5)	(213.8)	(216.5)	I
(160-169)	Cerebrovascular	43.4	34.4	82.8	36.4	34.1	90.3	179.5	47.5	76.2	77.7	I
(100-109)	Disease	(47.0)	(42.2)	(68.3)	(36.6)	(45.4)	(61.7)	(69.4)	(44.4)	(56.9)	(40.2)	I
(See Note***)	Motor Vehicle	9.0	10.3	5.1	9.2	12.7	32.5	44.9	6.9	11.0	14.6	I
(See Note)	Accidents	(9.2)	(10.6)	(4.3)	(9.8)	(13.2)	(31.6)	(36.1)	(7.6)	(11.2)	(9.9)	
(Caa Nata***)	All other condents	16.1	19.4	15.2	17.9	15.8	25.3	.0	20.7	20.1	19.4	ĺ
(See Note)	All other accidents	(15.8)	(20.6)	(12.9)	(17.8)	(18.1)	(20.5)	(.0)	(19.5)	(19.8)	(14.6)	I
(K70, K73,	Cimhasia aflican	6.6	5.8	5.1	5.6	7.4	.0	.0	2.6	11.0	14.6	ĺ
K74)	Cirrhosis of Liver	(6.4)	(6.4)	(4.3)	(5.2)	(8.1)	(.0)	(.0)	(2.8)	(8.6)	(10.9)	
	Chronio											t

27.7

(27.6)

15.9

(15.5)

21.5

(21.5)

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(44.5)

13.0

(15.7)

19.2

(26.8)

3.4

(4.8)

6.8

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(42.7)

43.4

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36.1

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44.9

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(38.8)

22.5

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25.1

(21.8)

11.2

(10.0)

7.8

(8.7)

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39.6

(30.4)

15.8

(11.7)

29.2

(22.8)

3.7

(2.6)

5.5

(5.6)

1.2

72.8

(41.6)

9.7

(4.8)

19.4

(9.7)

4.9

(2.6)

14.6

(14.1)

.0

TOTALS S. County 280.8 (303.3)194.6 (203.1)41.2 (44.8)10.7 (11.1)18.0 (18.3)6.2 (6.2)

37.8

(40.6)

16.6

(17.5)

19.4

(21.1)

5.4

(5.9)

8.2

(8.3)

2.3

(2.4)

144.5

(153.3)

(J40-J47)

(E10-E14)

(J10-J18)

(170)

Chronic Obstructive

Pulmonary

Diabetes Mellitus

Pneumonia and

Influenza

Atherosclerosis

Homicide

47.2

(50.1)

19.4

(19.7)

11.8

(13.1)

3.3

(3.8)

6.6

(6.8)

1.9

36.4

(43.7)

15.4

(18.1)

18.7

(22.5)

4.9

(6.1)

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2.2

37.2

(29.9)

16.9

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10.1

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(2.2)(1.5)(1.2)(1.8)(1.5)(4.5)(.0)(0.)(0.)(0.)Y89.0) 145.9 130.3 157.2 148.0 125.2 227.6 179.5 208.4 247.6 174.6 All Other Causes (153.0)(151.7)(127.0)(147.3)(151.2)(166.2)(71.7)(162.9)(163.1)(140.2)

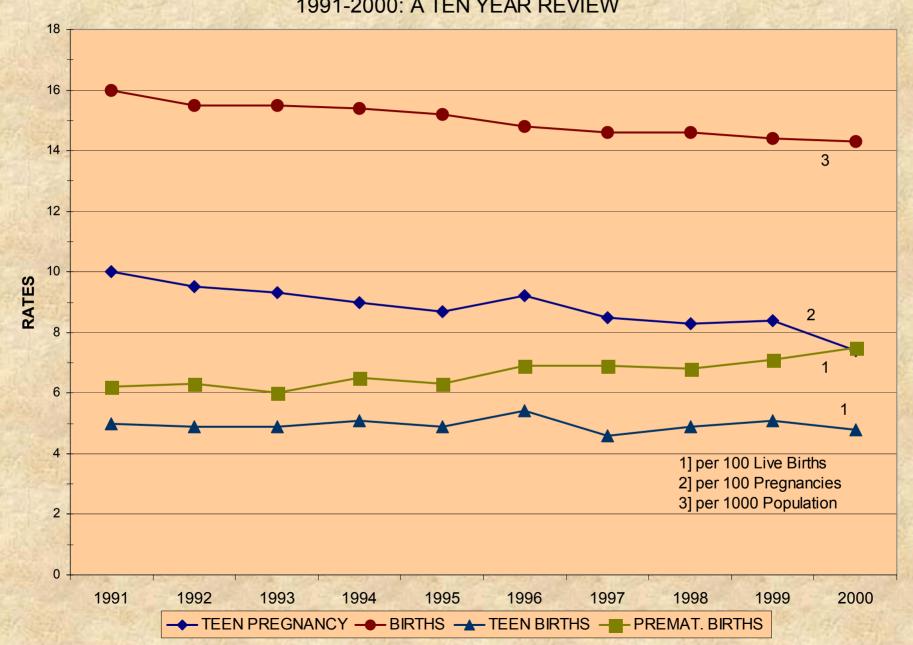
Y87.0) (X85-Y09.9, Y87.1, Y35,

⁽X60-X84.9, Suicide

^{*}Adjusted to 2000 U.S. Population. Age Adjusted rates are given in parentheses. **Rates per 100,000 population. *** Motor Vehicle Accidents and All Other Accidents use miscellaneous non-consective V codes in ICD X. A list of codes for each of these causes is available on request.

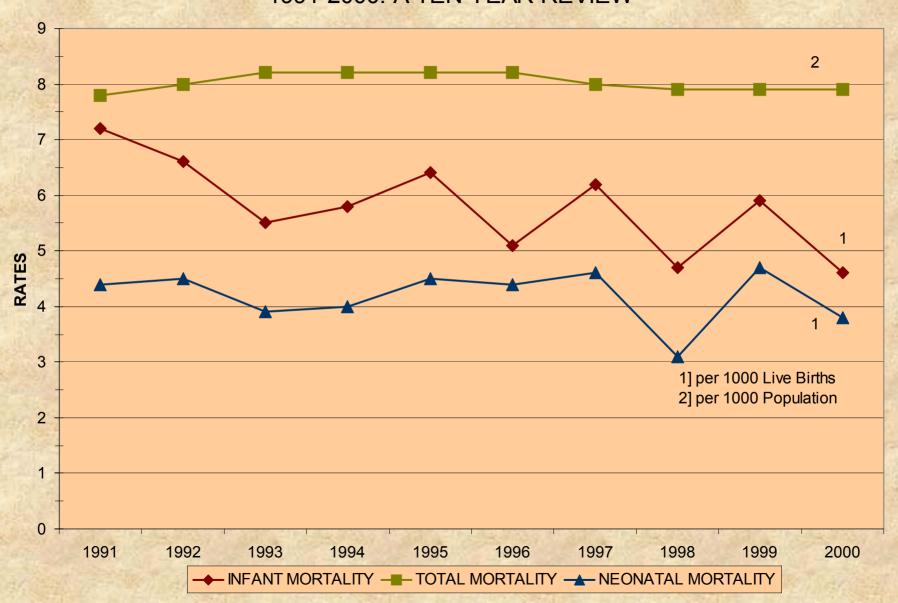
NATALITY RATES: SUFFOLK COUNTY

1991-2000: A TEN YEAR REVIEW



MORTALITY RATES: SUFFOLK NY

1991-2000: A TEN YEAR REVIEW



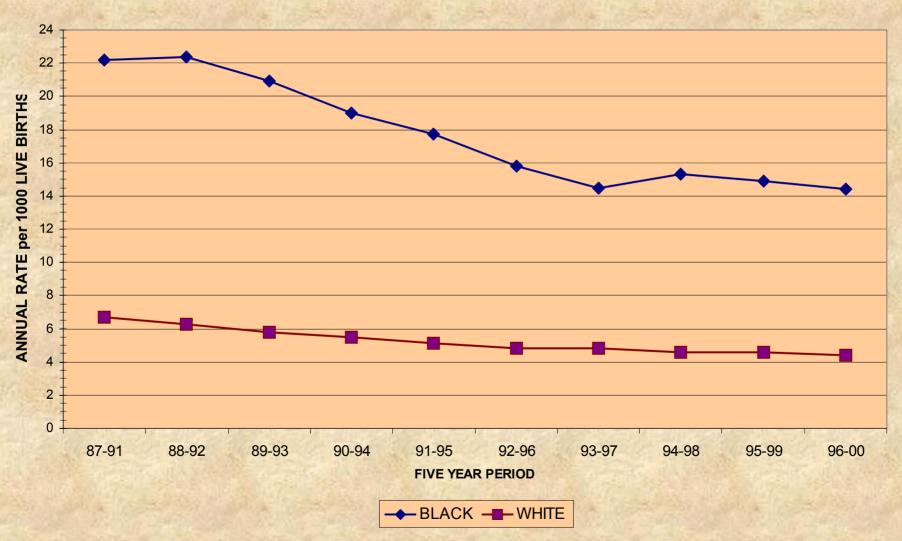
INFANT DEATHS BY RACE FREQUENCIES AND RATES* SUFFOLK COUNTY 1991-2000

100				YEAR	OF DEA	TH				
RACE	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
WHITE	108	92	88	89	84	75	93	66	91	64
VALLE	(5.8)	(5.1)	(4.9)	(4.9)	(4.7)	(4.3)	(5.3)	(3.8)	(5.2)	(3.6)
BLACK	41	37	22	27	32	21	23	28	23	29
BLACK	(21.9)	(20.1)	(12.1)	(15.3)	(19.1)	(12.5)	(13.7)	(15.7)	(13.6)	(16.3)

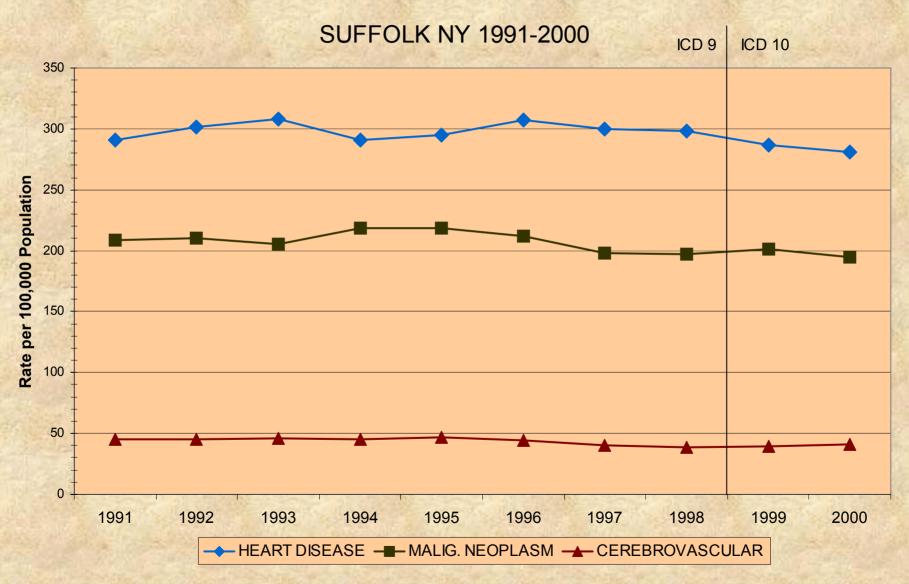
^{*} Rates per 1,000 Live Births are given in parentheses

ANNUAL INFANT MORTALITY by RACE

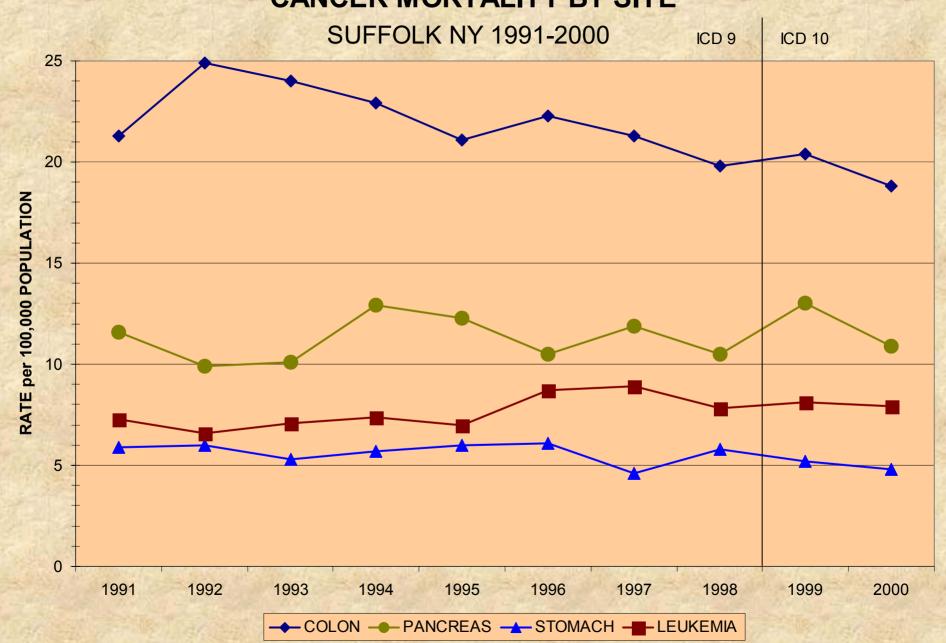
5 YEAR MOVING AVERAGE: SUFFOLK NY



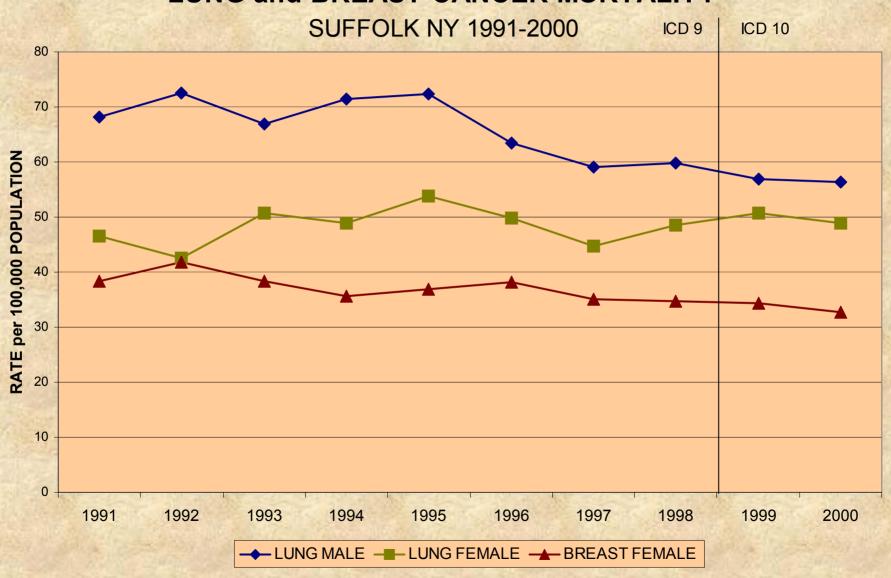
SELECTED CAUSES of MORTALITY



CANCER MORTALITY BY SITE



LUNG and BREAST CANCER MORTALITY



AQUIRED IMMUNE DEFICIENCY SYNDROME (AIDS UNITED STATES AND SUFFOLK COUNTY RISK FACTOR CUMULATIVE DATA THROUGH DECEMBER 31, 2001

	UNITED	STATES	SUFFOLK	COUNTY
RISK FACTOR	NUMBER	PERCENT	NUMBER	PERCENT
HOMOSEXUAL	368,971	45%	1,138	32%
INJECTING DRUG ABUSER	201,326	25%	1,320	37%
HOMOSEXUAL AND INJECT DRUGS	51,293	6%	221	6%
HEMOPHILIAC	5,528	1%	26	1%
HETEROSEXUAL	90,131	11%	373	11%
BLOOD TRANSFUSIONS	9,352	1%	51	1%
CHILD OF INFECTED PARENT	8,284	1%	63	2%
OTHER / UNKNOWN	81,264	10%	343	10%
TOTAL	816,149	100%	3,535	100%

